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PHASE I UNDERGROUND TANK
LEAK INVESTIGATION REPORT
FOR DOUGLAS AIRCRAFT COMPANY'S
C6 FACILITY
LOS ANGELES, CALIFORNIA

Prepared for:

Douglas Aircraft Company 3855 Lakewood Boulevard Long Beach, California 90844

> Project No. 41863B June 1987

PHASE I UNDERGROUND TANK LEAK INVESTIGATION REPORT FOR DOUGLAS AIRCRAFT COMPANY'S C6 FACILITY LOS ANGELES, CALIFORNIA

1.0 INTRODUCTION

As part of the on-going underground tank leak investigation for Douglas Aircraft Company (DAC), Woodward-Clyde Consultants installed and sampled soil borings in the vicinity of Tanks 19T and 20T at Douglas' Los Angeles, California C6 Facility (Figure 1). The purpose of the boring program was to evaluate the leakage that resulted from the underground piping associated with tanks 19T and 20T.

This report contains the investigation procedures, the results of the sample analysis, a discussion of the results, and recommendations for further steps.

2.0 SITE HYDROGEOLOGY

The Douglas Aircraft C6 Facility, located on the Torrance Plain of the Los Angeles Coastal Basin, is underlain by the Lakewood Formation. The primary aquifers beneath the site are the "Semi-Perched" and the Gage. The following is a description of the aquifers and the aquicludes beneath the site.

2.1 "Semi-perched" Aquifer

The "Semi-perched" Zone is a coarse sand and gravel aquifer that varies in thickness from 0 to 60 feet. It occurs near the surface throughout much of the coastal plain, but is very irregular in occurrence. It is mainly comprised of stream sediments, although it also consists of marine deposits beneath the Torrance Plain. (Marine deposits have been identified in the borings at the C6 Facility.) Wells in the "Semi-perched" zone yield small quantities of poor quality water, which is of little beneficial use.

2.2 Bellflower Aquitard

The "Semi-perched" Zone is underlain by the Bellflower Aquitard, which separates this zone from the underlying Gage The Bellflower Aquitard consists permeability, fine sediments, and acts а grained confining unit on the underlying Gage Aquifer. The Bellflower is a heterogeneous mixture of continental and sediments, and also contains sand and marine It varies in thickness from 0 to 200 feet and may be approximately 60 to 80 feet thick in the site area.

2.3 Gage Aquifer

The lowest member of Lakewood Formation, the Gage Aquifer, is also known as the "200 foot sand". It extends over most of the Coastal Plain. In the site vicinity it consists of coarse sand and gravel, and from an evaluation of the regional data appears to be approximately 40 to 80 feet thick.

2.4 Site Specific Interpretation

The C6 site is approximately 50 feet above Mean Sea Level. The uppermost 200 feet of the subsurface consists of the Lakewood Formation and contains the "Semi-perched" and Gage Aquifers, separated by the Bellflower Aquitard. Regional

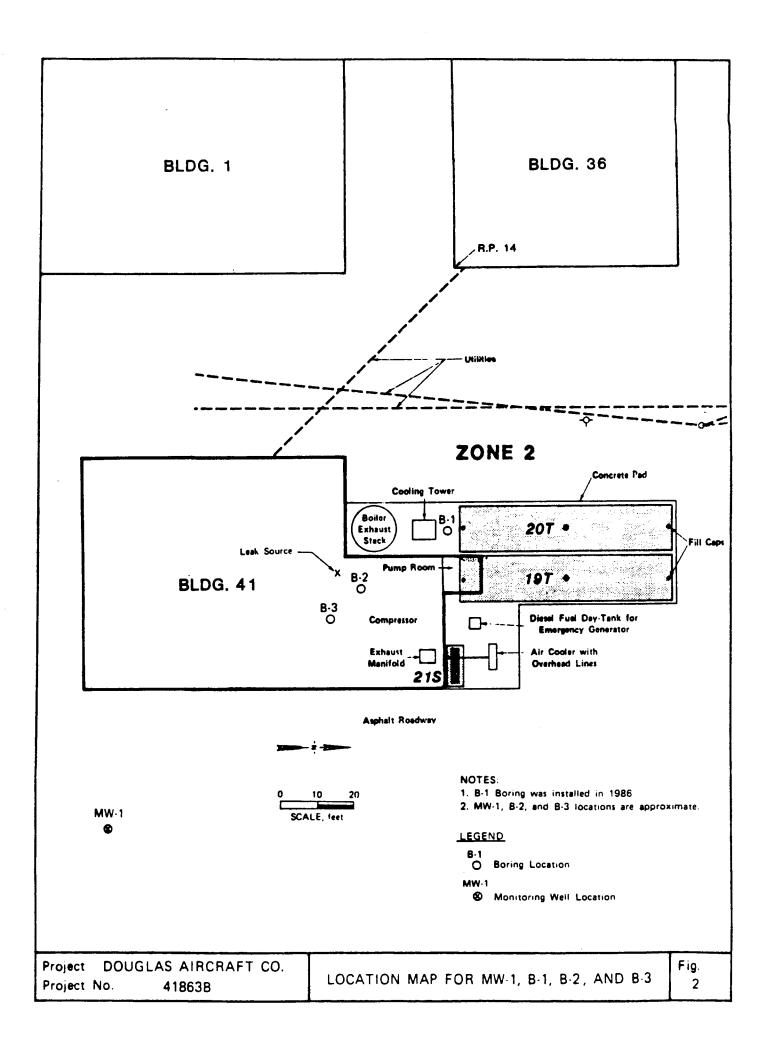


TABLE 4.1
SOIL ANALYSIS FOR BORINGS B2 AND B3

Total Petroleum Hydrocarbon Depth (ft) (ppm) Sample No. 5,000 10 B2-2-36,000 30 B2 - 7 - 314,000 35 B2 - 7 - 42,000 42 B2-8-4 2,000 47 B2 - 9 - 450 19,000 B2-10-4 2,900 5 B3-1-427 10 B3-2-41,200 15 B3 - 3 - 44,400 20 B3-4-413,000 25 B3-5-3 4,100 B3-6-3 30

Borings are near tanks 19T and 20T at C6 Facility

The presence of solvents in the ground water does not appear to be the result of the leak associated with Tanks 19T and 20T. The leak from Tanks 19T and 20T was a diesel leak, and would not be expected to produce halogenated solvents at the concentrations present in the ground water.

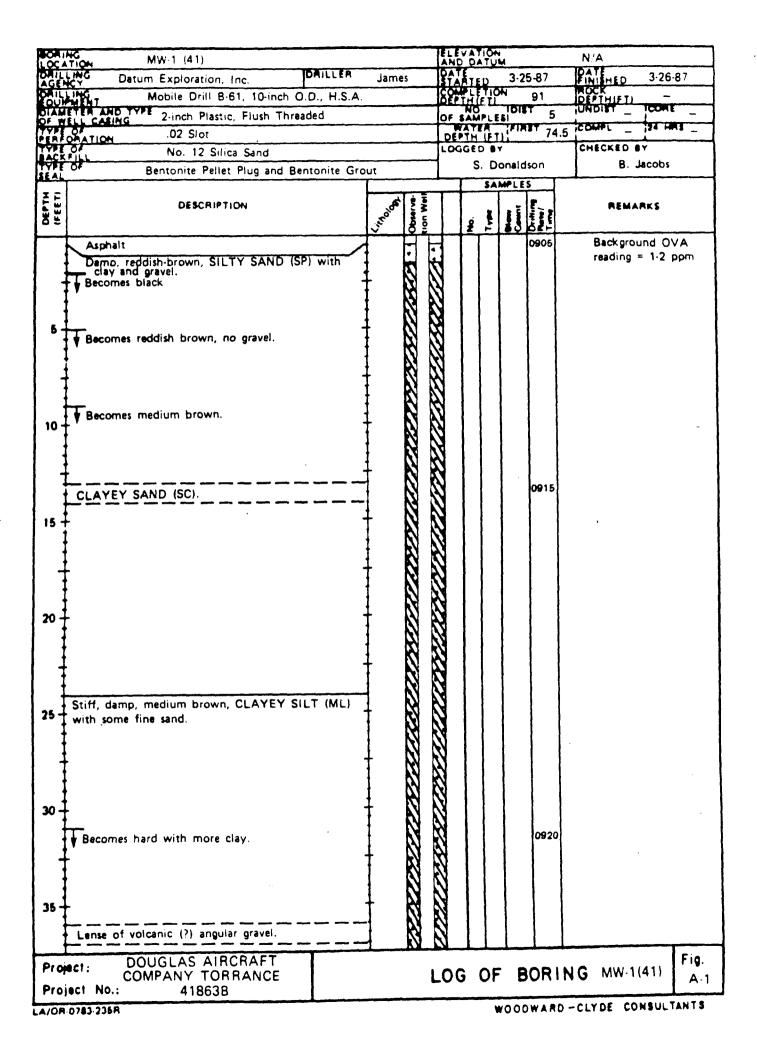
The fuel oil concentrations in the soil near Tanks 19T and 20T have apparently resulted from the leak of diesel in this area. The fuel oil is present in the soil to a depth between 50 and 70 feet near the source, with lateral spreading estimated at up to 30 feet.

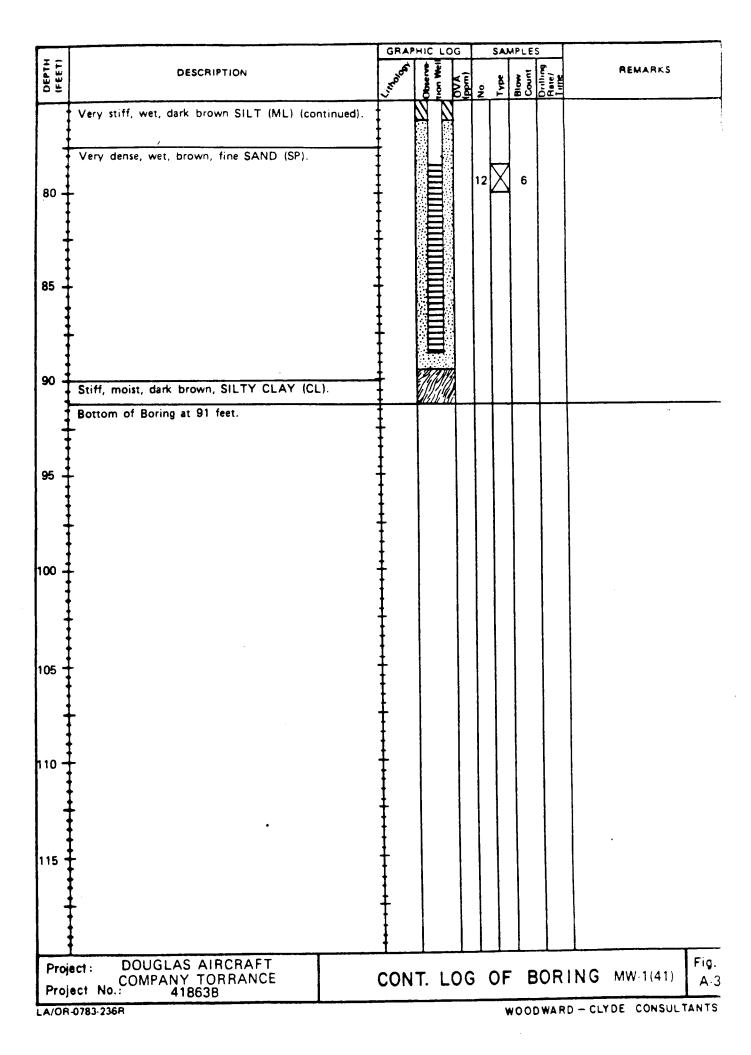
5.0 RECOMMENDATIONS

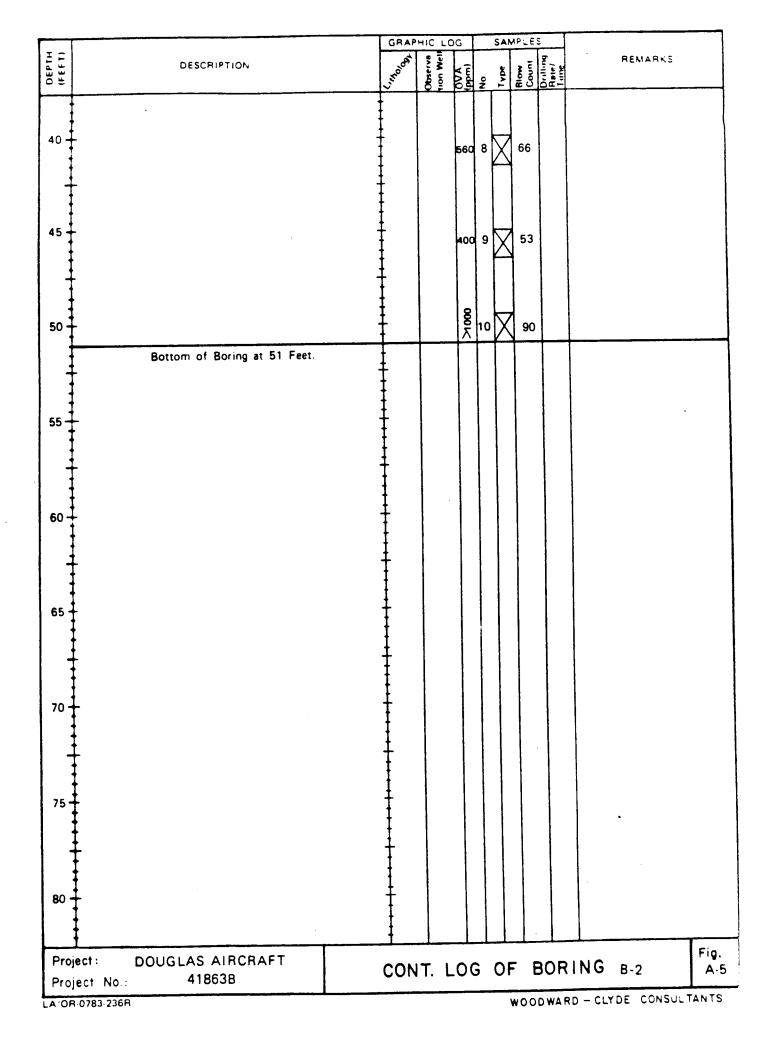
The results obtained from the field investigation indicated that fuel oil is present in the soil in the vicinity of Tanks 19T and 20T. However, the compounds present in the ground water are apparently not due to the release of fuel oil. Therefore, it is recommended that further investigation be implemented to delineate the extent of the solvents in the ground water and identify the source(s) of these solvents.

The planned investigation would at a minimum entail the following:

- Installation of an additional boring near the source of the fuel oil release. This boring would be used to evaluate whether the fuel oil had reached ground water, by sampling between 50 feet and 65 feet.
- Installation of three additional observation wells around Tanks 19T and 20T, to evaluate whether these tanks are (were) the source of the solvents in the ground water.







APPENDIX B

CHEMICAL ANALYSIS RESULTS

April 17, 1987

WOODWARD-CLYDE 203 N. Golden Circle Drive Santa Ana, CA 92705

Attn: Allistair Callendar

JOB NO. 5664



ANALYTICAL CHEMISTS

LABORATORY REPORT

Samples: Forty (40) soil samples Date Received: 4-10-87

Purchase Order No: Project 41863B

Fifteen (15) soil samples were analyzed for hydrocarbon content according to a modified EPA method 8015. The results are reported in the following table.

Page 1 of 2

Jim Bonde

BALLE HO

Senior Chemist

D.J. Northington, Ph.D.

Technical Director

WOODWARD CLYDE CLIENT:

SAMPLE: MW-1, A

ANALYSIS TYPE: EPA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED: 04/13/87

QCMS FILENAME:

567772

LEVEL:

LOW

MATRIX:

WATER

DATE PREPARED:

04/15/87

DATE ANALYZED:

04/15/87

STANDARD ID: SAMPLE AMOUNT: **VDA457** 100UL

INSTRUMENT ID: 5100

		0010	110 (1 (DDD)	DETECTION
CAS #	COMPOUND		UG/L(PPB)	LIMIT
****	: 你知识我们就们对自己的对话就可以把我们的表现的对话,只是不是什么			
108-90-7	CHLOROBENZENE		ND	5 0.
100-41-4	ETHYLBENZENE		ND	5 0.
100-42-5	STYRENE		ND	5 0.
95-47-6	TOTAL XYLENES		ND	5 0.
108-41-8	M-CHLOROTOLUENE		ND	5 0.
541-73-1	1,3-DICHLOROBENZENE		ND	50 .
106-46-7	1,4-DICHLOROBENZENE		ND	50 .
95-50-1	1,2-DICHLOROBENZENE		ND	5 0.
120-82-1	1, 2, 4-TRICHLOROBENZENE		ND	50 .

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ء ۾ چون د

CLIENT: WOODWARD CLYDE

SAMPLE: MW-1, B

SAMPLE AMOUNT:

108-88-3

TOLUENE

ANALYSIS TYPE: EPA METHOD 8240 (624)

100UL

DRGANICS ANALYSIS DATA RESULTS

CCMS FILENAME: 5677V3 DATE RECEIVED: 04/13/87 LOW MATRIX: WATER LEVEL: 04/15/87 DATE PREPARED: 04/15/87 DATE ANALYZED: STANDARD ID: **VDA457** INSTRUMENT ID: 5100

DETECTION CONC: UG/L(PPB) COMPOUND LIMIT CAS # ND 300. 74-87-3 CHLOROMETHANE 74-83-9 BROMOMETHANE ND 300. VINYL CHLORIDE ND 300. 75-01-4 ND 300. 75-00-3 CHLORDETHANE METHYLENE CHLORIDE ND 500. 75-09-2 ND 500. ACETONE 67-64-1 ND 500. 107-02-8 ACROLEIN ND 500. ACRYLONITRILE 107-13-1 CARBON DISULFIDE ND 50. 75-15-0 2500. 50. 75-35-4 1, 1-DICHLOROETHENE 75-34-3 1,1-DICHLOROETHANE ND 50. ND 50. TRANS-1, 2-DICHLOROETHENE 156-60-5 **TETRAHYDROFURAN** ND 50. 109-99-9 50. 75-69-4 TRICHLOROFLUOROMETHANE ND FREON-TF ND 50. 76-13-1 ND 50. 106-93-4 ETHYLENE DIBROMIDE 123-91-1 1,4-DIDXANE ND 50. ND 50. 1,2-DIBROMO-3-CHLOROPROPANE 96-12-8 ND 50. 67-66-3 CHLOROFORM ND 50. 1, 2-DICHLOROETHANE 107-06-2 ND 500. 78-93-3 2-BUTANONE 71-55-6 120. 50. 1, 1, 1-TRICHLORDETHANE ND 50. 16-23-5 CARBON TETRACHLORIDE VINYL ACETATE ND 300. 108-05-4 ND 50. BROMODICHLOROMETHANE 75-27-4 50. ND 1, 1, 2, 2-TETRACHLOROETHANE 79-34-5 1,2-DICHLOROPROPANE ND 50. 78-87-5 50. ND 10061-02-6 TRANS-1,3-DICHLOROPROPENE 3600. TRICHLORDETHENE 50. 79-01-6 ND 50. CHLORODIBROMOMETHANE 124-48-1 1, 1, 2-TRICHLORDETHANE ND **5**0. 79-00-5 ND 50. BENZENE 71-43-2 50. ND 10061-01-5 CIS-1, 3-DICHLOROPROPENE ND 500. 110-75-8 2-CHLOROETHYLVINYLETHER 50. ND BROMOFORM 75-25-2 300 ND 2-HEXANONE 119-78-6 4-METHYL-2-PENTANONE ND 300. 108-10-1 50 ND TETRACHLORDETHENE 127-18-4 ND

CLIENT: WOODWARD CLYDE

SAMPLE: MW-1, B

TENTATIVELY IDENTIFIED COMPOUNDS

COMPOUND NAME FRACTION CONCENTRATION

VDA

UG/L(PPB)

1 NONE FOUND

CLIENT: WOODWARD CLYDE TRIP BLANK SAMPLE:

ANALYSIS TYPE: EPA METHOD 8240 (624)

DRGANICS ANALYSIS DATA RESULTS

04/13/87 DATE RECEIVED: LOW

QCMS FILENAME:

567744

LEVEL:

MATRIX:

WATER 04/15/87

DATE PREPARED: STANDARD ID:

04/15/87 **VDA457**

DATE ANALYZED:

SAMPLE AMOUNT:

5. OML

INSTRUMENT ID:

5100

			DETECTION
CAS #	COMPOUND	UG/L(PPB)	LIMIT
74-87-3	CHLOROMETHANE	 ND	5 .
74-83-9	BROMOMETHANE	ND	5 .
75-01-4	VINYL CHLORIDE	ND	5 .
75 -00-3	CHLOROETHANE	ND	5 .
75-09-2	METHYLENE CHLORIDE	ND	10.
67-64-1	ACETONE	ND	10.
107-02-8	ACROLEIN	ND	10.
107-13-1	ACRYLONITRILE	ND	10.
75-15-0	CARBON DISULFIDE	ND	1.
75-35-4	1,1-DICHLOROETHENE	ND	1.
75-34-3	1,1-DICHLOROETHANE	ND	1.
156-60-5	TRANS-1, 2-DICHLORDETHENE	ND	1.
109-99-9	TETRAHYDROFURAN	ND	1.
75-69-4	TRICHLOROFLUOROMETHANE	ND	1.
76-13-1	FREON-TF	ND	1.
106-93-4	ETHYLENE DIBROMIDE	ND	1.
123-91-1	1,4-DIOXANE	ND	1.
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	ND	1.
67-66-3	CHLOROFORM	ND	1.
107-06-2	1,2-DICHLORDETHANE	ND	1
78-93-3	2-BUTANONE	ND	10.
71-55-6	1,1,1-TRICHLOROETHANE	ND	1.
16-23-5	CARBON TETRACHLORIDE	ND	1.
108-05-4	VINYL ACETATE	ND	5 .
75-27-4	BROMODICHLOROMETHANE	ND	1.
79-34-5	1, 1, 2, 2-TETRACHLORDETHANE	ND	1.
78-87-5	1,2-DICHLOROPROPANE	ND	1.
10061-02-6	TRANS-1,3-DICHLOROPROPENE	ND	1.
79-01-6	TRICHLOROETHENE	ND	1.
124-48-1	CHLORODIBROMOMETHANE	ND	1.
79-00-5	1, 1, 2-TRICHLOROETHANE	ND	1.
71-43-2	BENZENE	ND	1.
10061-01-5	CIS-1,3-DICHLOROPROPENE	ND	1.
110-75-B	2-CHLORDETHYLVINYLETHER	ND	10
75-25-2	BROMOFORM	ND	1. 5.
119-78-6	2-HEXANDNE	ND	ວ. 5.
108-10-1	4-METHYL-2-PENTANONE	ND	
127-18-4	TETRACHLOROETHENE	ND	1. 1.
108-88-3	TOLUENE	ND	.

CLIENT: WOODWARD CLYDE

SAMPLE: TRIP BLANK

TENTATIVELY IDENTIFIED COMPOUNDS

COMPOUND NAME FRACTION CONCENTRATION

UG/L(PPB)

1 NONE FOUND YOA

CLIENT: WOODWARD-CLYDE

SAMPLE MW-1(41)A

ANALYSIS TYPE | EFA METHOD 8240 (624)

ORGANICS ANALYSIS DATA RESULTS

DATE RECEIVED:

03/27/87

GCMS FILENAME:

5557V3

LEVEL:

LOW

MATRIX:

WATER

DATE PREPARED:

04/01/87

DATE ANALYZED:

04/01/87

STANDARD ID:

5101

VDA280

INSTRUMENT ID:

SAMPLE AMOUNT:

100UL

DETECTION

50

ND

CAS #	COMPOUND	
*======		==

120-82-1 1, 2, 4-TRICHLOROBENZENE

CAS #	COMPOUND	CONC:	UG/L(PPB)	LIMIT
2 2222222				
108-90-7	CHLOROBENZENE		ND	5 C
100-41-4	ETHYLBENZENS		NE	50.
100-42-5	STYRENE		ND	50
95-47-6	TOTAL XYLENES		ND	5 0.
108-41-8	M-CHLOROTOLUENE		ND	50
95-50-1	1,2-DICHLOROBENZENE		ND	50
541-73-1	1,3-DICHLOROBENZENE		ND	5 0.
106-46-7	1,4-DICHLORDBENZENE		ND	5 0.

Data Reporting Qualifiers

- Value If the result is a value greater than or equal to the Detection Limit (DL), the value is reported
- ND Indicates that the compound was analyzed for but not detected. The minimum DL for the sample with the ND is reported based on necessary concentration or dilution actions.
- TR Indicates an estimated value. This flag is used when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified DL but greater than zero.

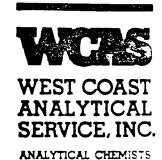
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January 9, 1987

WOODWARD-CLYDE 203 N. Golden Circle Drive Santa Ana, CA 92705

Attn: Kevin Gibson

JOB NO. 4968



LABORATORY REPORT

Samples: Nineteen (19) soil samples

Date Received: 1-6-87 Purchase Order No: 41863B

Ten (10) samples were analyzed for total petroleum hydrocarbons by EPA method 418.1. The results are reported below:

Parts Per Million

Sample.No.	Total Petroleum Hydrocarbons
2-7-4	14000
2-8-4	2000
2-9-4	2000
2-10-4	19000
3-1-4	2900
3-2-4	27
3-3-4	1200
3-4-4	4400
3-5-3	13000
3-6-3	4100
Detection Limit	10

Date Extracted: 1-8-87
Date Analyzed: 1-8-87

Page 1 of 1

Isabelle Gundran Chemist.

D.J. Northington, Ph.D. Technical Director

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